

IN THE CLAIMS

1. (Currently amended) A two-directions scanning method, ~~said two-directions scanning method comprises~~ comprising:

~~setting a first dpi in a user interface;~~

~~driving moving~~ a scan head ~~to make said scan head move~~ along a first scanning direction to proceed with a first scanning procedure using a first dpi, wherein a first image is ~~got~~ obtained from said first scanning procedure;

~~setting a second dpi and a scope in said user interface and moving~~ said scan head ~~moving~~ along a second scanning direction to proceed with a second scanning procedure in a ~~third~~ second dpi ~~at the same time~~, wherein a second image is ~~got~~ obtained from said second scanning procedure: and

transforming said second image to become a third image according to said a scope of the first image and ~~said second~~ a third dpi by using a program; and

wherein said first scanning direction is generally opposite to said second scanning direction.

2. (Original) The method according to claim 1, wherein said first dpi is lower than said third dpi.

3. (Original) The method according to claim 1, wherein said second dpi is lower than said third dpi.

4. (Original) The method according to claim 1, wherein said third dpi is a highest dpi of said scan head.

5. (Original) The method according to claim 1, wherein said program transforms said second image to become said third image by adjusting a graph image coordinate.

6. (Original) The method according to claim 1, wherein said program transforms said second image to become said third image by adjusting a dpi scale.

7. (Canceled)

8. (Original) The method according to claim 1, wherein said first scanning procedure is a preview procedure.

9. (Currently amended) A two-directions scanning method, ~~said two-directions scanning method comprises~~ comprising:

selecting a two-directions scanning mode ~~in a user interface~~;

~~setting a first dpi and a second dpi in said user interface~~;

~~driving moving~~ a scan head ~~to make said scan head move~~ along a first scanning direction to proceed with a first scanning procedure using a first dpi, wherein a first image is ~~got~~ obtained from said first scanning procedure;

~~setting a third dpi and a scope of said first image in said user interface and moving~~ said scan head ~~moving~~ along a second scanning direction to proceed with a second scanning procedure in said second dpi ~~and said first dpi at the same time~~, wherein a second image is ~~got~~ obtained from said second scanning procedure ~~and saved in a memory~~; and

selecting a program mode and transforming said second image to become a third image according to said a first scope of said first image and said a third dpi by using a program; and wherein said first scanning direction is generally opposite to said second scanning direction.

10. (Original) The method according to claim 9, wherein said first dpi is lower than said second dpi.

11. (Original) The method according to claim 9, Wherein said first dpi is lower than said third dpi.

12. (Original) The method according to claim 9, wherein said third dpi is lower than said second dpi.

13. (Original) The method according to claim 9, wherein said third dpi is a highest dpi of said scan head.

14. (Original) The method according to claim 9, wherein said program transforms said second image to become said third image by adjusting a graph image coordinate.

15. (Original) The method according to claim 9, wherein said program transforms said second image to become said third image by adjusting a dpi scale.

16. (Original) The method according to claim 9, wherein a fourth dpi is set in said user interface after said third image is formed.

17. (Currently amended) The method according to claim 16, wherein said second image is transformed to become a fourth image according to said fourth dpi and a second scope of the first image by using said program ~~after said fourth dpi is set.~~

18. (Currently amended) The method according to claim 17, wherein said fourth image can be used to replace said first image.

19. (Currently amended) The method according to claim 9, wherein said program transforms said second image to become said fourth image by adjusting a dpi scale and a graph image coordinate.

20.- 23. (canceled)

24. (new) The method of claim 1, further comprising setting at least one of the first dpi, the second dpi, the third dpi, and the scope of the first image in a user interface.

25. (new) The method of claim 9, further comprising setting at least one of the first dpi, the second dpi, the third dpi, and the scope of the first image in a user interface.

26. (new) A two-directions scanning method, comprising:

moving a scan head along a first scanning direction to proceed with a first scanning

procedure using a first dpi, wherein a first image is obtained from said first scanning procedure;

moving said scan head along a second scanning direction to proceed with a second scanning procedure in a second dpi, wherein a second image is obtained from said second scanning procedure; and

using said scan head to proceed with a third scanning procedure in a third dpi, wherein a third image is obtained from said third scanning procedure; and

wherein said first scanning direction is generally opposite to said second scanning direction.

27. (new) A system, comprising:

means for moving a scan head along a first scanning direction to proceed with a first scanning procedure using a first dpi, wherein a first image is obtained from said first scanning procedure;

means for moving said scan head along a second scanning direction to proceed with a second scanning procedure in a second dpi, wherein a second image is obtained from said second scanning procedure; and

means for transforming said second image to obtain a third image according to a scope of the first image and a third dpi by using a program; and

wherein said first scanning direction is generally opposite to said second scanning direction.